



1998 Toxics Release Inventory

SOUTH DAKOTA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	3,136,308	18,962,496	22,098,804
Air Emissions	2,314,440	275,340	2,589,780
Surface Water Discharges	808,061	210,651	1,018,712
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	13,807	18,476,505	18,490,312
Off-site Releases (Transfers Off-site to Disposal)*	114,923	97,005	211,928
Total On- and Off-site Releases	3,251,231	19,059,501	22,310,732
Recycled On-site	479,727	542,954	1,022,681
Recycled Off-site	899,786	52,000	951,786
Energy Recovery On-site	1,092,000	0	1,092,000
Energy Recovery Off-site	209,283	0	209,283
Treated On-site	1,891,554	4,179,746	6,071,300
Treated Off-site**	1,267,051	3	1,267,054
Quantity Released On- and Off-site***	3,198,539	19,031,696	22,230,235
Total Production-related Waste Managed	9,037,940	23,806,399	32,844,339
Total Non-production-related Waste Managed	371	7	378

Transfers Off-site for Further Waste Management/Disposal

Recycling	1,023,959	52,000	1,075,959
Energy Recovery	70,440	0	70,440
Treatment	265,788	0	265,788
Publicly Owned Treatment Works (POTWs)	1,128,451	0	1,128,451
Metals and Metal Compounds*	1,317	0	1,317
Non-metal TRI Chemicals**	1,127,134	0	1,127,134
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	113,606	97,005	210,611
Total Transfers Off-site for Further Waste Management/Disposal	2,602,244	149,005	2,751,249

* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Transfers to POTWs of non-metals are included in treated off-site waste management activity.

*** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

**** Transfers reported without a valid waste management code.

For More Information . . .

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(202) 260-1531
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The largest marker in the state map represents the largest facility for on-site releases in the state of South Dakota. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	738,171
Square Miles	75,896
Total Facilities	70
Total Forms	179
Form As	20

	Original Industries	New Industries	Total
National Rank for Total On- and Off-site Releases*			
Rank	45	30	41
Pounds	3,251,231	19,059,501	22,310,732
National Rank for Total On-site Releases**			
Rank	45	29	39
Pounds	3,136,308	18,962,496	22,098,804
National Rank for Total Releases within State***			
Rank	45	30	41
Pounds	3,250,725	19,059,486	22,310,211
National Rank for Production-related Waste Managed			
Rank	48	33	46
Pounds	9,037,940	23,806,399	32,844,339

* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Includes amounts released at the facility. Excludes amounts transferred to other sites.

*** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



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On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
110-54-3	n-Hexane	960,822	0	0	0	0	960,822	0	0	0
—	Nitrate compounds	0	807,639	0	0	30	807,669	0	30	0
1330-20-7	Xylene (mixed isomers)	576,522	0	0	2,317	755	579,594	0	755	0
108-88-3	Toluene	175,555	0	0	6,951	410	182,916	0	410	0
7664-41-7	Ammonia	152,321	242	0	0	4,054	156,617	0	4,054	0
100-42-5	Styrene	155,121	0	0	0	0	155,121	0	0	0
110-82-7	Cyclohexane	52,250	0	0	0	0	52,250	0	0	0
—	Zinc compounds	15	0	0	0	52,125	52,140	0	51,845	280
—	Glycol ethers	49,050	0	0	0	0	49,050	0	0	0
78-93-3	Methyl ethyl ketone	43,069	0	0	0	0	43,069	0	0	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7440-38-2	Arsenic	4,094	307	0	9,896,218	0	9,900,619	0	0	0
—	Manganese compounds	1,674	235	0	6,298,331	1,500	6,301,740	0	1,500	0
—	Zinc compounds	695	0	0	830,000	14,000	844,695	0	14,000	0
—	Barium compounds	4,446	56	0	640,000	81,090	725,592	0	81,090	0
—	Copper compounds	164	235	0	657,176	400	657,975	0	400	0
—	Nitrate compounds	0	206,821	0	66,773	5	273,599	0	0	5
7664-39-3	Hydrogen fluoride	93,000	0	0	0	0	93,000	0	0	0
7647-01-0	Hydrochloric acid	50,037	0	0	0	0	50,037	0	0	0
7440-47-3	Chromium	5	5	0	41,000	0	41,010	0	0	0
74-90-8	Hydrogen cyanide	38,079	0	0	0	0	38,079	0	0	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.



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On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
John Morrell & Co., Sioux Falls, Minnehaha	165,916	807,881	0	0	0	0	973,797	4,084	226
South Dakota Soybean Processors, Volga, Brookings	933,572	0	0	0	0	0	933,572	0	0
3M Health Care Brookings, Brookings, Brookings	292,380	0	0	0	0	0	292,380	0	0
Raven Inds. Inc., Sioux Falls, Minnehaha	146,375	0	0	0	0	0	146,375	0	0
Alcoa Extrusions Inc., Yankton, Yankton	123,987	0	0	0	0	0	123,987	0	0
Starmark Inc., Sioux Falls, Minnehaha	109,250	0	0	0	0	0	109,250	0	0
Feterl Mfg. Co., Salem, Mc Cook	62,981	0	0	0	0	0	62,981	0	0
Kolbert-Pioneer Inc., Yankton, Yankton	33,433	0	0	0	0	13,557	46,990	0	0
CR Ind. of Springfield, Springfield, Bon Homme	44,070	0	0	0	0	0	44,070	2,203	0
UDI Trussbilt, Huron, Beadle	40,458	0	0	0	0	0	40,458	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Homestake Mine, Lead, Lawrence	68,603	207,075	0	0	0	16,424,495	16,700,173	0	0
Big Stone Plant, Big Stone City, Grant	176,149	0	0	0	0	1,625,000	1,801,149	23,200	0
Wharf Resources (U.S.A.) Inc., Lead, Lawrence	17,005	3,520	0	0	0	427,010	447,535	0	15
BHPL — Ben French Power Plant, Rapid City, Pennington	13,583	56	0	0	0	0	13,639	73,790	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



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Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
John Morrell & Co., Sioux Falls, Minnehaha	0	0	0	0	247,092	11,700	974,505	1,233,297	226
South Dakota Soybean Processors, Volga, Brookings	0	0	0	0	0	0	933,572	933,572	0
3M Health Care Brookings, Brookings, Brookings	0	4,620	1,092,000	18,410	360,000	131,100	290,800	1,896,930	0
Raven Inds. Inc., Sioux Falls, Minnehaha	0	0	0	2,400	0	0	146,000	148,400	0
Alcoa Extrusions Inc., Yankton, Yankton	0	5,600	0	119,600	334,800	600	122,240	582,840	0
Starmark Inc., Sioux Falls, Minnehaha	0	0	0	18,404	0	0	109,250	127,654	0
Feterl Mfg. Co., Salem, Mc Cook	0	6,200	0	0	0	0	62,952	69,152	0
Minnesota Rubber Co., Watertown, Codington	0	0	0	0	0	0	49,392	49,392	0
CR Ind. of Springfield, Springfield, Bon Homme	0	7,653	0	10,929	15,736	0	45,791	80,109	0
UDI Trussbilt, Huron, Beadle	0	12,700	0	0	0	0	40,458	53,158	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Homestake Mine, Lead, Lawrence	542,954	0	0	0	3,064,554	0	16,692,174	20,299,682	7
Big Stone Plant, Big Stone City, Grant	0	0	0	0	256,000	0	1,809,000	2,065,000	0
Wharf Resources (U.S.A.) Inc., Lead, Lawrence	0	52,000	0	0	833,000	3	443,440	1,328,443	0
BHPL — Ben French Power Plant, Rapid City, Pennington	0	0	0	0	26,192	0	87,082	113,274	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.